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S-E-C-R-E	. One comp 035 on 56 par 201
Service Con Work Order Re	· . · · · · · · · · · · · · · · · · · ·
	8-075
	Date: 21 April 1958
TO : Chief, Research and Development Bra	anch, OC-E
FROM: Chief, ELINT Activities Branch, OG-	-SP
1. Description of work requested: Fabric	ation of thirty (30) each, highly stable
1000 cycle reference oscillators. The	units should be completely transistorized,
and use a high precision tuning fork a	s the frequency determining element. The
oscillators should be battery-operated	by either a dry cell or mercury cell and
should have a feature to permit remote	operation.
2. List drawings, sketches, or samples as	0574
 a. Electrical and mechanical specific b. Wiring diagram (electronics) c. Mechanical drawings and parts list d. Sample oscillator 	8010110
These items are available at 1414 Curi	e Requested by
Hall.	Chier, SF/EA
Contractor's Price estimate 1/62 9000) 25X1 +15 8
Contractor's Delivery estimate	ys after receipt of order.
	Estimate accepted by _
Work Order No. 3 1ssued	
Contractor	For further information, please contact
	25X1
S-E-C-B	
Addressee: 1 copy only	25X1
CONFID	DENTIAL

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Electrical Specifications - 1 kcs. Reference Oscillator:

- 1. Power Source: Z cell or mercury cell RM-5012R
- 2. Battery Polarity: Notapplicable
- 3. Output Impedance: 2000 ohms
- 4. Stability: 1 part in 10,000 over specified temperature range
- 5. Output level: 35 mv. across 2,000 ohms (earphone)
 100 mv. across 5,000 to 100,000 ohms (recorder)
- 6. Temperature Range: -40° to +40° C.
- 7. Warm-up Time: 45 seconds
- 8. Local Controls: Power on/off switch Output push button
- 9. Remote Controls: Power on/off (not furnished) Output push button Remote battery

Physical Specifications:

- 1. Dimensions (overall)

 Length 4-5/16 in.

 Width 2-1/4 in.

 Height 1-1/32 in.
- 2. Weight 14 oz. including battery

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FABRICATION OF A 1000 CYCLE REFERENCE OSCILLATOR

I. Requirements

1. General. This requirement demands a highly stable 1000 cycle reference oscillator. The units shall be completely transistorized, and use a precision tuning fork as the frequency determaning element. The oscillators shall be battery operated by either a dry cell or mercury cell and should have a feature to permit remote operation.

2. Electrical.

- a. Power source: Z cell or RM-5002R mercury cell.
- b. Battery polarity: none
- c. Output impedance: 2000 ohms.
- d. Stability: 1 part in 10,000 over the

specified temperature range.

e. Output level: 35 mv across 2,000 ohms (earphones)

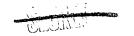
100 mv across 5000 to 100,000

ohms (recorder).

- f. Temperature range: -40 degrees to /40 degrees centigrade.
- g. Warm up time: 45 seconds.
- h. Local controls: Pow er on/off switch

Output - push button.

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3. Physical.

a. Dimensions: Length, 4-5/16"

Width, 2-1/4"

Height, 1-1/32"

b. Weight: 14 oz., including battery.

II. Deliverable items.

A quantity of thirty (30) reference oscillators shall be fabricated. If necessary, a revised parts list will be submitted to the customer.

III. Government Furnished Equipment.

- a. Electrical and mechanical specifications.
- b. Schematic diagrams.

Mechanical drawings and parts list.

d. Sample os cillator.

IV. Instructions to the Contractor.

The contractor will submit a letter of proposal to the customer including a cost breakdown estimate and delivery date (preferably, on or by 30 June 1958). This equipment is UNCLASSIFIED, however, its association with the contract or the con-

tracting organization is classified SECRET.

